

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions of claims in the application.

LISTING OF CLAIMS:

1. (Canceled).

2. (Canceled).

3. (Canceled).

4. (Previously Presented) A computer switching system comprising:

a user interface device for multiplexing signals output from a connected keyboard and cursor control device and for providing an interface to a video display;

a switch unit for enabling communication between said user interface device and a plurality of remotely located computers, said switch unit coupled to said user interface device by a single first connection; and

a plurality of computer interface modules each coupled to said switch unit by a single second connection, each of said computer interface modules coupled to at least one of said remotely located computers;

wherein video signals output from said remotely located computers are transmitted to said video display via said switch unit;

wherein said user interface device comprises an amplification circuit for automatically amplifying said transmitted video signals based on at least a synchronization signal transmitted with a component of said video signal;

wherein said user interface device receives keyboard and cursor control device signals, packetizes at least one of said keyboard or cursor control signals and transmits said packetized signal with command data to said switch unit; and

wherein said switch unit interprets said command data which identifies at least one of said remotely located computers, generates an emulated keyboard or cursor

control device signal based on said packetized signal and transmits said emulated signal to said identified remotely located computer.

5. (Previously Presented) A system according to claim 4, wherein at least one of said first and second connections comprise a series of twisted pair conducting wires.

6. (Previously Presented) A system according to claim 5, wherein each said component of said video signals is transmitted on one of said twisted pair conducting wires and wherein said keyboard and cursor control device signals are transmitted on a separate one of said twisted pair conducting wires.

7. (Previously Presented) A system according to claim 5, wherein said synchronization signal is transmitted with one of said components of said video signals on one of said twisted pair conducting wires.

8. (Previously Presented) A system according to claim 4, wherein said synchronization signal is decoded by said user interface device.

9. (Previously Presented) A system according to claim 5, wherein said command data is transmitted with said keyboard and cursor control signals on a separate one of said twisted pair conducting wires.

10. (Canceled).

11. (Previously Presented) A system according to claim 4, wherein each of said plurality of computer interface modules receives power from one of said remote computers.

12. (Previously Presented) A system according to claim 4, wherein said amplification circuit amplifies amplitude and frequency components of said video signals by analyzing said synchronization signal.

13. (Canceled).

14. (Canceled).

15. (Canceled).

16. (Previously Presented) A system according to claim 4, wherein said synchronization signal is a horizontal or vertical synchronization signal.

17. (Previously Presented) A computer switching system comprising:

a user station including a keyboard, cursor control device and video display;

a switch for enabling communication between said user station and a plurality of remotely located computers, wherein said switch is coupled to said user station by a first connection; and

a plurality of computer interface modules each coupled to a communication circuit of one of said plurality of remote computers and each of said computer interface modules coupled to said switch by a second connection;

wherein said user station receives keyboard and cursor control device signals, packetizes at least one of said keyboard or cursor control device signals, and transmits said packet with command data to said switch;

wherein said switch interprets said command data in said packet to determine a destination of said packet, emulates keyboard or cursor control device signals, and transmits said emulated keyboard or cursor control device signal to said destination;

wherein one of said computer interface modules receives video signals having red, green, and blue components from one of said remote computers and encodes synchronization signals onto at least one of said components for transmission to said user station through said switch; and

wherein said user station analyzes said encoded synchronization signals to automatically amplify one or more frequency components of said video signals.

18. (Previously Presented) A system according to claim 17, wherein each of said computer interface modules receives power from one of said remotely located computers.

19. (Previously Presented) A system according to claim 17, wherein at least one of said first and second connections comprise a series of twisted pair conducting wires.

20. (Previously Presented) A system according to claim 19, wherein each said component of said video signals is transmitted on one of said twisted pair conducting wires and wherein said keyboard and cursor control device signals are transmitted on a separate one of said twisting pair conducting wires.

21. (Previously Presented) A system according to claim 17, wherein said synchronization signals are encoded as negative signals.

22. (Previously Presented) A system according to claim 17, wherein said synchronization signals comprise horizontal or vertical synchronization signals.

23. (Currently Amended) A system according to claim 17, wherein said user station compares said encoded synchronization signals to a signal of known shape to determine a degradation of said synchronization signals, wherein at least one of said encoded synchronization signals has a predetermined signal characteristic.

24. (Previously Presented) A system according to claim 23, wherein said user station amplifies said one or more frequency components of said video signals to compensate for said degradation.

25. (Previously Presented) A method for remotely operating a remote computer, said method comprising the steps of:

receiving keyboard signals from a local keyboard at a user station;

receiving cursor control device signals from a local cursor control device at said user station;

transmitting said keyboard and cursor control device signals with command data to a central switch;

interpreting said command data and said keyboard and cursor control device signals, said central switch including a circuit for producing emulated keyboard and cursor control device signals at said central switch;

transmitting said emulated keyboard and cursor control device signals to said remote computer;

receiving video signals at said central switch from said remote computer in response to said emulated keyboard and cursor control device signals;

amplifying at least one frequency component of said video signals based on synchronization signals transmitted with said video signals to produce tuned video signals for display at said user station.

26. (Previously Presented) A method according to claim 25, said method further comprising the step of:

encoding said synchronization signals onto said video signals from said remote computer.

27. (Previously Presented) A method according to claim 25, further comprising the step of:

analyzing said synchronization signals to determine a level of amplification for said at least one frequency component of said video signals.

28. (Previously Presented) A method according to claim 25, wherein said synchronization signals comprise horizontal or vertical synchronization signals.